

# Hasan Ã-zer

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,589  
citations

361296

20  
h-index

315616

38  
g-index

63  
all docs

63  
docs citations

63  
times ranked

961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of the fracture-based flexibility index for asphalt concrete cracking potential using modified semi-circle bending test parameters. <i>Construction and Building Materials</i> , 2016, 115, 390-401.	3.2	208
2	Hybrid life cycle assessment for asphalt mixtures with high RAP content. <i>Resources, Conservation and Recycling</i> , 2014, 83, 77-86.	5.3	192
3	Fracture Characterization of Asphalt Mixtures with High Recycled Content Using Illinois Semicircular Bending Test Method and Flexibility Index. <i>Transportation Research Record</i> , 2016, 2575, 130-137.	1.0	101
4	Environmental and economic analyses of recycled asphalt concrete mixtures based on material production and potential performance. <i>Resources, Conservation and Recycling</i> , 2015, 104, 141-151.	5.3	82
5	Vehicle energy consumption and an environmental impact calculation model for the transportation infrastructure systems. <i>Journal of Cleaner Production</i> , 2018, 174, 424-436.	4.6	71
6	Characterisation of interface bonding between hot-mix asphalt overlay and concrete pavements: modelling and in-situ response to accelerated loading. <i>International Journal of Pavement Engineering</i> , 2012, 13, 181-196.	2.2	60
7	Interface Bonding between Hot-Mix Asphalt and Various Portland Cement Concrete Surfaces. <i>Transportation Research Record</i> , 2008, 2057, 46-53.	1.0	55
8	Prediction of pavement fatigue cracking at an accelerated testing section using asphalt mixture performance tests. <i>International Journal of Pavement Engineering</i> , 2018, 19, 264-278.	2.2	50
9	Effects of Interface Conditions on Reflective Cracking Development in Hot-Mix Asphalt Overlays. <i>Road Materials and Pavement Design</i> , 2010, 11, 307-334.	2.0	43
10	Life-Cycle Greenhouse Gases and Energy Consumption for Material and Construction Phases of Pavement with Traffic Delay. <i>Transportation Research Record</i> , 2014, 2428, 27-34.	1.0	36
11	Damage zone development in heterogeneous asphalt concrete. <i>Engineering Fracture Mechanics</i> , 2017, 182, 356-371.	2.0	36
12	Optimizing rejuvenator content in asphalt concrete to enhance its durability. <i>Construction and Building Materials</i> , 2018, 179, 642-648.	3.2	36
13	Investigation of viscoelastic fracture fields in asphalt mixtures using digital image correlation. <i>International Journal of Fracture</i> , 2017, 205, 37-56.	1.1	33
14	Fracture-Based Friction Model for Pavement Interface Characterization. <i>Transportation Research Record</i> , 2008, 2057, 54-63.	1.0	27
15	Interface Bonding between Hot-Mix Asphalt and various Portland Cement Concrete Surfaces. <i>Transportation Research Record</i> , 2009, 2127, 20-28.	1.0	27
16	Performance Characterization of Asphalt Mixtures at High Asphalt Binder Replacement with Recycled Asphalt Shingles. <i>Transportation Research Record</i> , 2013, 2371, 105-112.	1.0	24
17	Mechanics based model for predicting structure-induced rolling resistance (SRR) of the tire-pavement system. <i>Mechanics of Time-Dependent Materials</i> , 2016, 20, 579-600.	2.3	24
18	Quantifying sustainable strategies for the construction of highway pavements in Illinois. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 51, 1-13.	3.2	24

#	ARTICLE	IF	CITATIONS
19	Regional upstream life-cycle impacts of petroleum products in the United States. <i>Journal of Cleaner Production</i> , 2016, 139, 1138-1149.	4.6	23
20	Using binder and mixture space diagrams to evaluate the effect of re-refined engine oil bottoms on binders and mixtures after ageing. <i>Road Materials and Pavement Design</i> , 2017, 18, 154-182.	2.0	22
21	Scenarios Developed for Improved Sustainability of Illinois Tollway. <i>Transportation Research Record</i> , 2015, 2523, 11-18.	1.0	21
22	Impact of high recycled mixed on HMA overlay crack development rate. <i>Road Materials and Pavement Design</i> , 2017, 18, 311-327.	2.0	20
23	Effects of Pavement Condition on LCCA User Costs. <i>Transportation Research Record</i> , 2019, 2673, 339-350.	1.0	20
24	Early-age performance characterization of hot-mix asphalt overlay with varying amounts of asphalt binder replacement. <i>Construction and Building Materials</i> , 2017, 153, 294-306.	3.2	19
25	New Stochastic Approach of Vehicle Energy Dissipation on Nondeformable Rough Pavements. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	1.6	19
26	Effects of Pavement Surface Roughness and Congestion on Expected Freeway Traffic Energy Consumption. <i>Transportation Research Record</i> , 2015, 2503, 10-19.	1.0	18
27	Viscoelastic and Poisson's ratio characterization of asphalt materials: critical review and numerical simulations. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	1.3	18
28	Baseline rolling resistance for tires on-road fuel efficiency using finite element modeling. <i>International Journal of Pavement Engineering</i> , 2017, 18, 424-432.	2.2	17
29	Testing of Fine Asphalt Mixtures to Quantify Effectiveness of Asphalt Binder Replacement Using Recycled Shingles. <i>Transportation Research Record</i> , 2014, 2445, 103-112.	1.0	16
30	Impact of Pavement Roughness and Deflection on Fuel Consumption Using Energy Dissipation. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	1.6	16
31	Influence of mix design parameters on asphalt concrete aging rate using I-FIT specimens. <i>Construction and Building Materials</i> , 2019, 200, 181-187.	3.2	16
32	Stochastic Analysis of Energy Dissipation of a Half-Car Model on Nondeformable Rough Pavement. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2017, 143, .	0.8	15
33	Micromechanical finite element modeling of moisture damage in bituminous composite materials. <i>Construction and Building Materials</i> , 2015, 80, 9-17.	3.2	14
34	Impact of Specimen Configuration and Characteristics on Illinois Flexibility Index. <i>Transportation Research Record</i> , 2018, 2672, 383-393.	1.0	13
35	Environmental and economic impact of using new-generation wide-base tires. <i>International Journal of Life Cycle Assessment</i> , 2019, 24, 753-766.	2.2	13
36	Stochastic Analysis of Rolling Resistance Energy Dissipation for a Tractor-Trailer Model. <i>Transportation Research Record</i> , 2019, 2673, 593-603.	1.0	13

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37	Total Recycled Asphalt Mixes: Characteristics and Field Performance. Transportation Research Record, 2019, 2673, 149-162.	1.0	12
38	Effect of Chemical Composition of Bio- and Petroleum-Based Modifiers on Asphalt Binder Rheology. Applied Sciences (Switzerland), 2020, 10, 3249.	1.3	11
39	Computational micromechanical analysis of the representative volume element of bituminous composite materials. Mechanics of Time-Dependent Materials, 2016, 20, 441-453.	2.3	10
40	Micromechanical modeling of I-FIT asphalt concrete specimens. Engineering Fracture Mechanics, 2018, 200, 234-250.	2.0	8
41	Quantification of the Effect of Binder Source on Flexibility of Long-Term Aged Asphalt Concrete. Transportation Research Record, 2020, 2674, 605-616.	1.0	8
42	Gradation Effects on the Strength Properties of Cement and Fly Ash Stabilized Quarry By-Products. , 2016, , .		7
43	Impact of High Asphalt Binder Replacement on Level Binder Properties for Controlling Reflective Cracking. Transportation Research Record, 2017, 2630, 118-127.	1.0	7
44	Brittleness progression for short- and long-term aged asphalt binders with various levels of recycled binders. International Journal of Pavement Engineering, 2021, 22, 1399-1409.	2.2	7
45	Illinois Flexibility Index Test: Effect of Specimen Geometry and Test Configuration on the Asphalt Concrete Damage Zone. Journal of Transportation Engineering Part B: Pavements, 2021, 147, 04020085.	0.8	7
46	Fatigue Tolerance of Aged Asphalt Binders Modified with Softeners. Transportation Research Record, 0, , 036119812110255.	1.0	7
47	A model to predict creep compliance of asphalt mixtures containing recycled materials. Construction and Building Materials, 2018, 184, 374-381.	3.2	6
48	Development of Domain Analysis for Determining Potential Pavement Damage. Journal of Transportation Engineering Part B: Pavements, 2018, 144, 04018030.	0.8	6
49	Effect of Methodological Choices on Pavement Life-Cycle Assessment. Transportation Research Record, 2018, 2672, 78-87.	1.0	5
50	Vehicle excess fuel consumption due to pavement deflection. Road Materials and Pavement Design, 2023, 24, 609-630.	2.0	5
51	Impact of Dynamic Loading on Confined Asphalt Concrete Surface. Transportation Research Record, 2022, 2676, 249-263.	1.0	5
52	Impacts of Field and Laboratory Long-Term Aging on Asphalt Binders. Transportation Research Record, 2022, 2676, 336-353.	1.0	5
53	Variable impact transportation (VIT) model for energy and environmental impact of hauling truck operation. International Journal of Life Cycle Assessment, 2019, 24, 1154-1168.	2.2	4
54	Impact of rest period on asphalt concrete permanent deformation. Construction and Building Materials, 2022, 332, 127329.	3.2	4

#	ARTICLE	IF	CITATIONS
55	Statistical Analysis of Hot-Mix Asphalt Pay for Performance versus Quality Control for Performance. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	0.8	3
56	A three-dimensional generalised finite element analysis for the near-surface cracking problem in flexible pavements. International Journal of Pavement Engineering, 2011, 12, 407-419.	2.2	2
57	Laboratory Characterization of Low-rolling Resistance Danish Stone-Matrix Asphalt. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 04018060.	0.8	2
58	Aggregate packing characterisation of cold recycled mixtures. International Journal of Pavement Engineering, 2023, 24, .	2.2	1